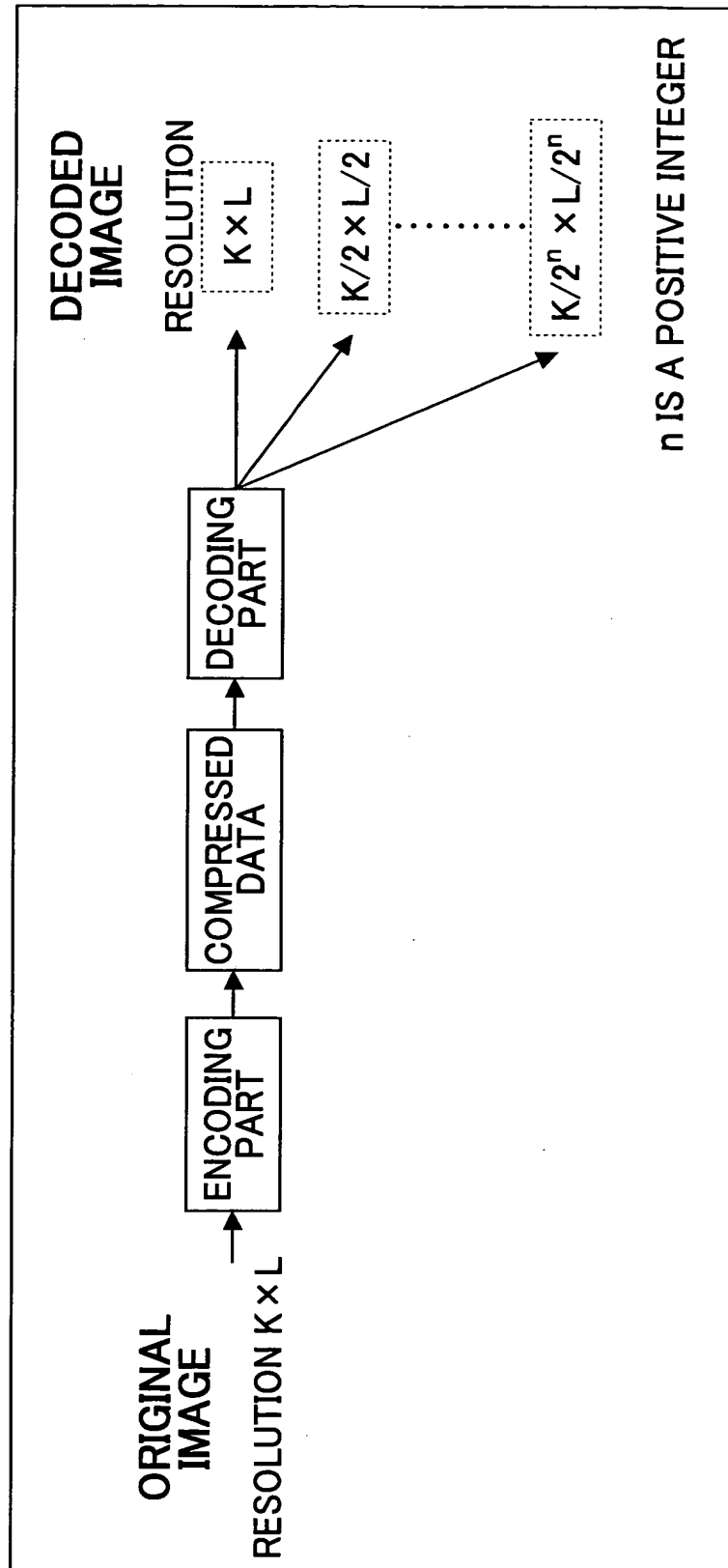


10/512075

PCT/PTO

05 NOV 2004

FIG. 1



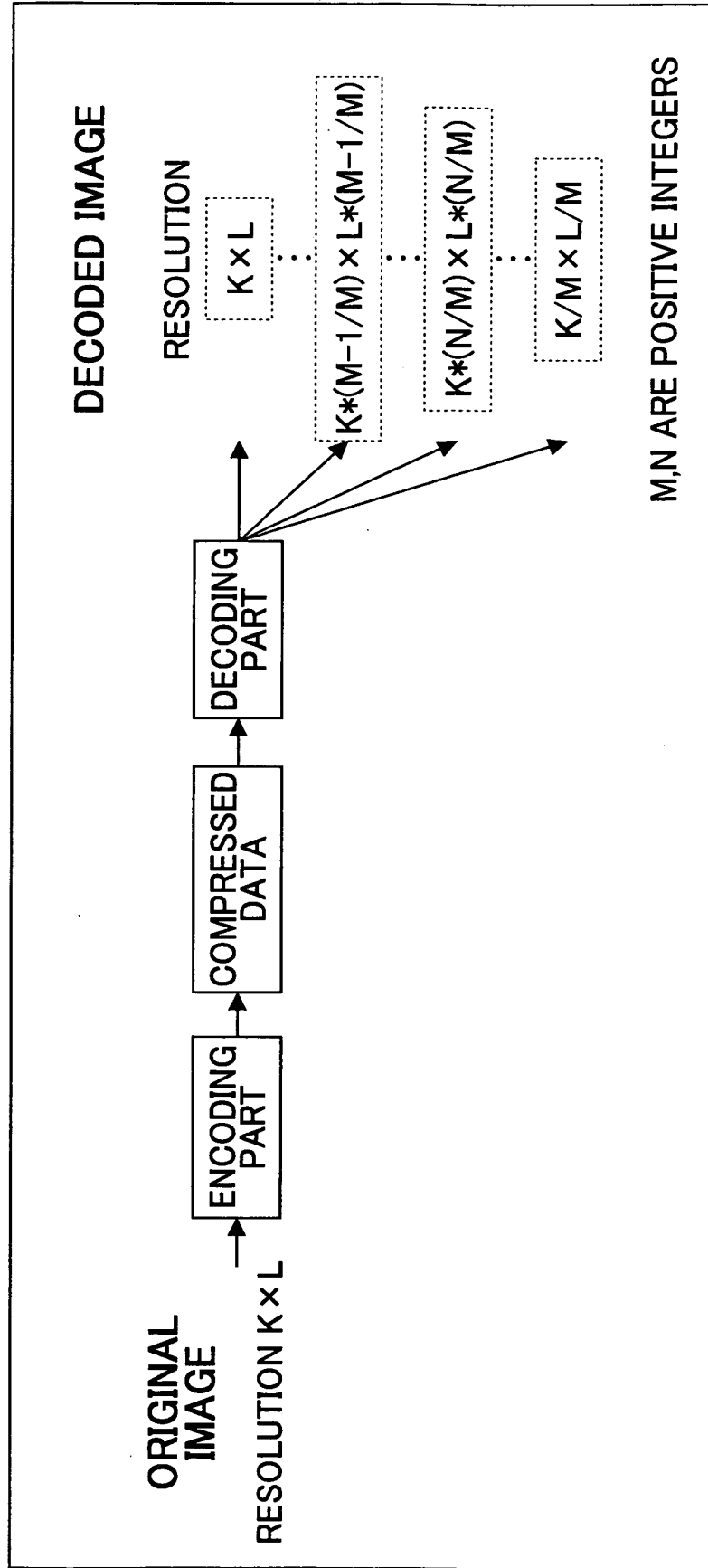
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10/512075

PCT/PTO

05 NOV 2004

FIG.2

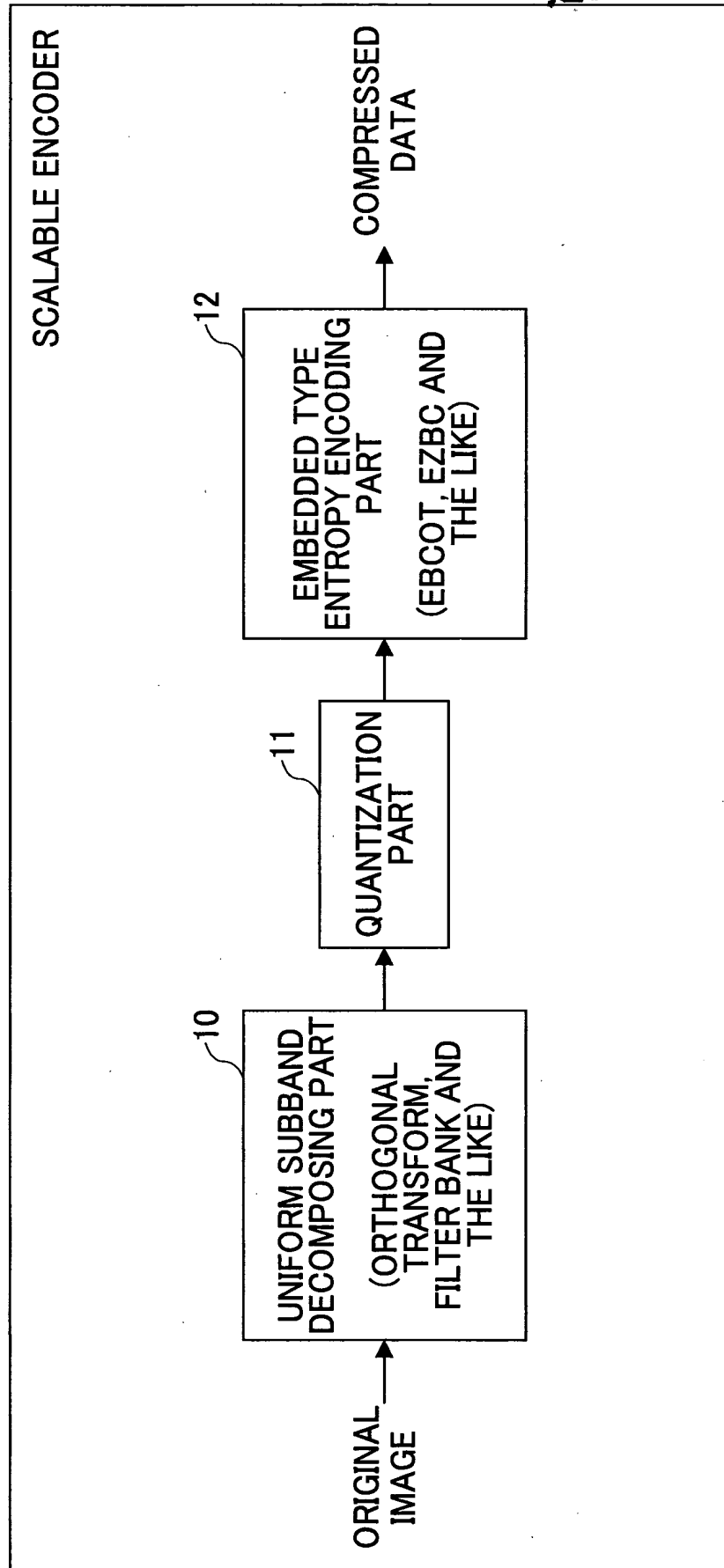


10/512075

PCT/PTO

05 NOV 2004

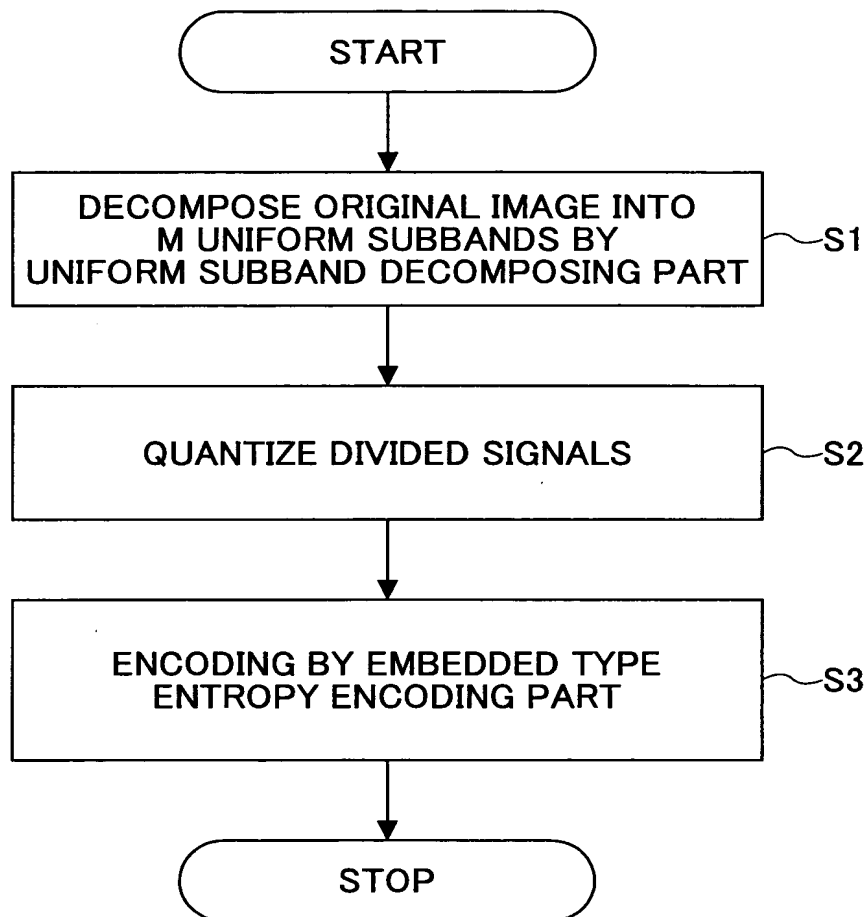
FIG.3



10/512075

PCT/PTO 05 NOV 2004

FIG.4

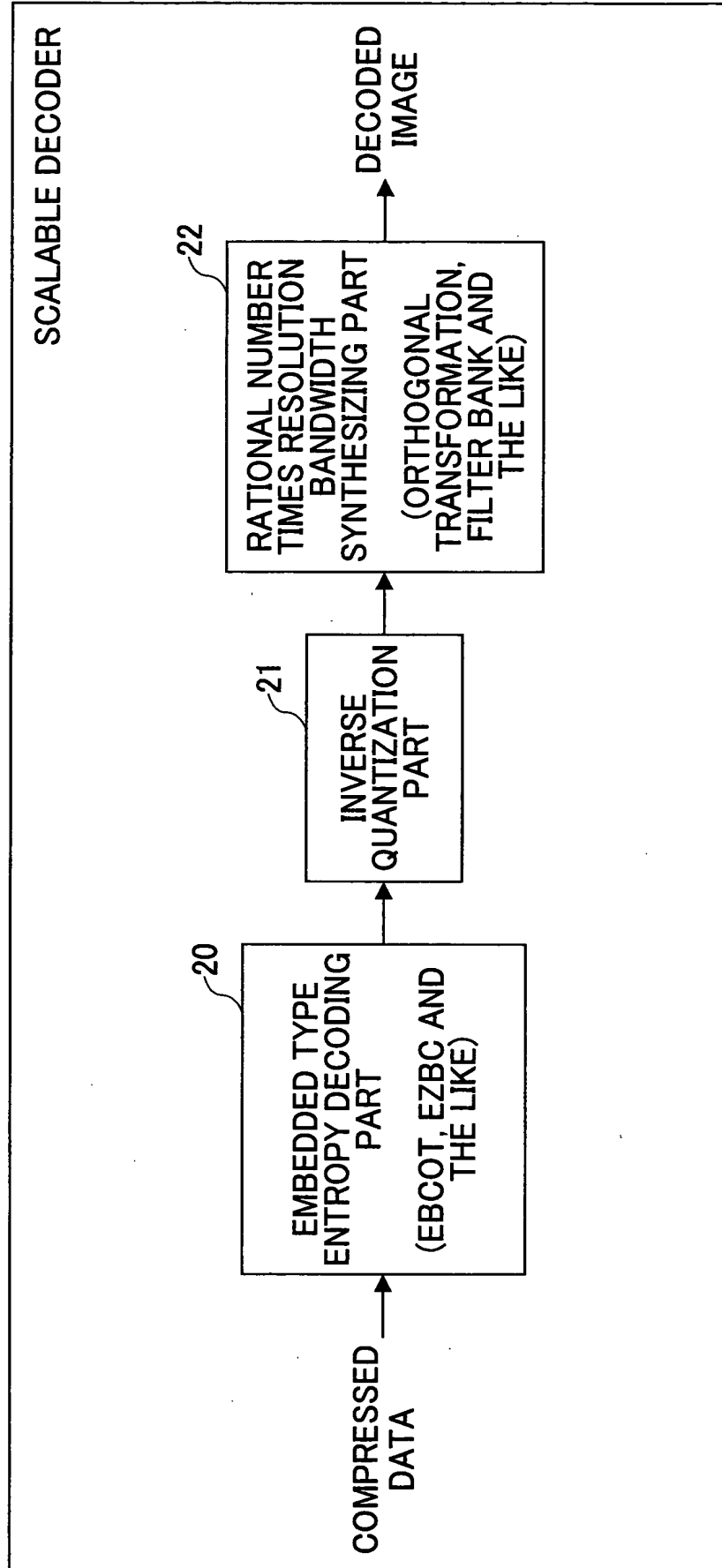


10/512073

PCT/PTO

05 NOV 2004

FIG.5



10/512075

11/11/04 05 NOV 2004

FIG.6

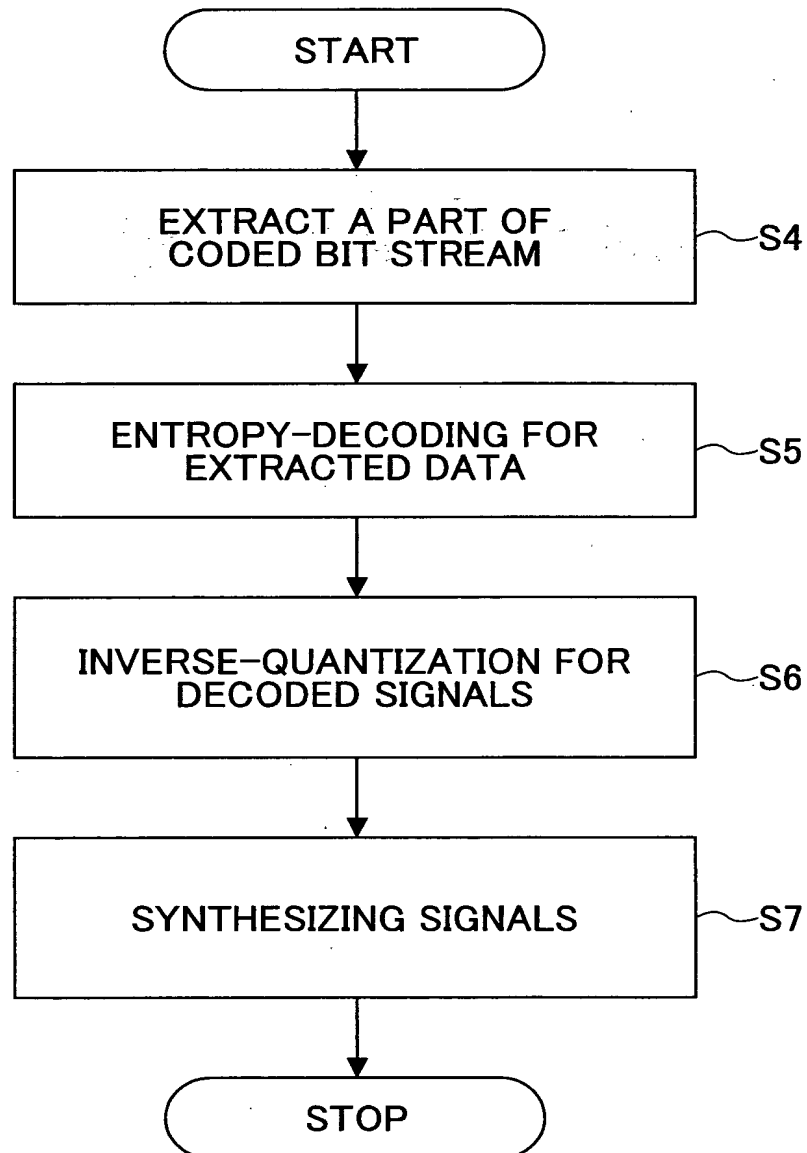
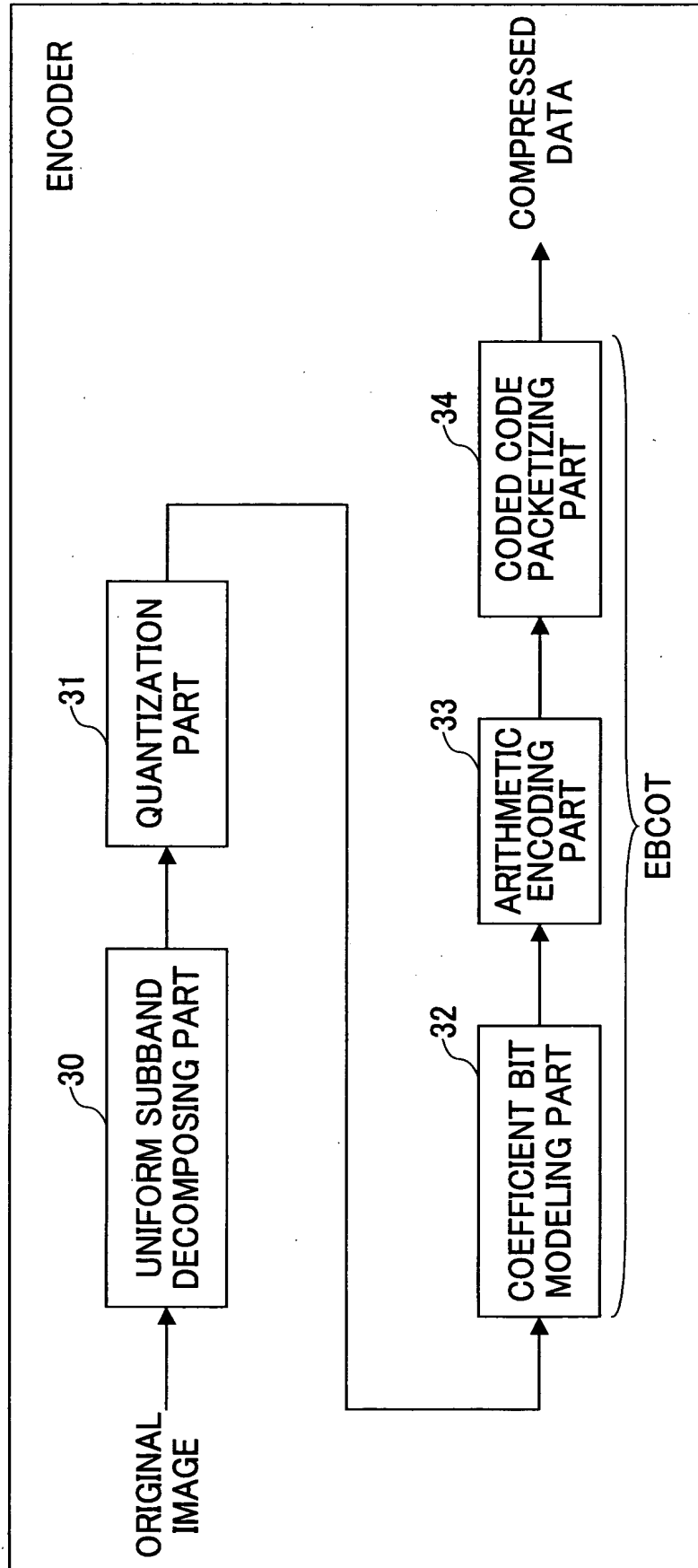


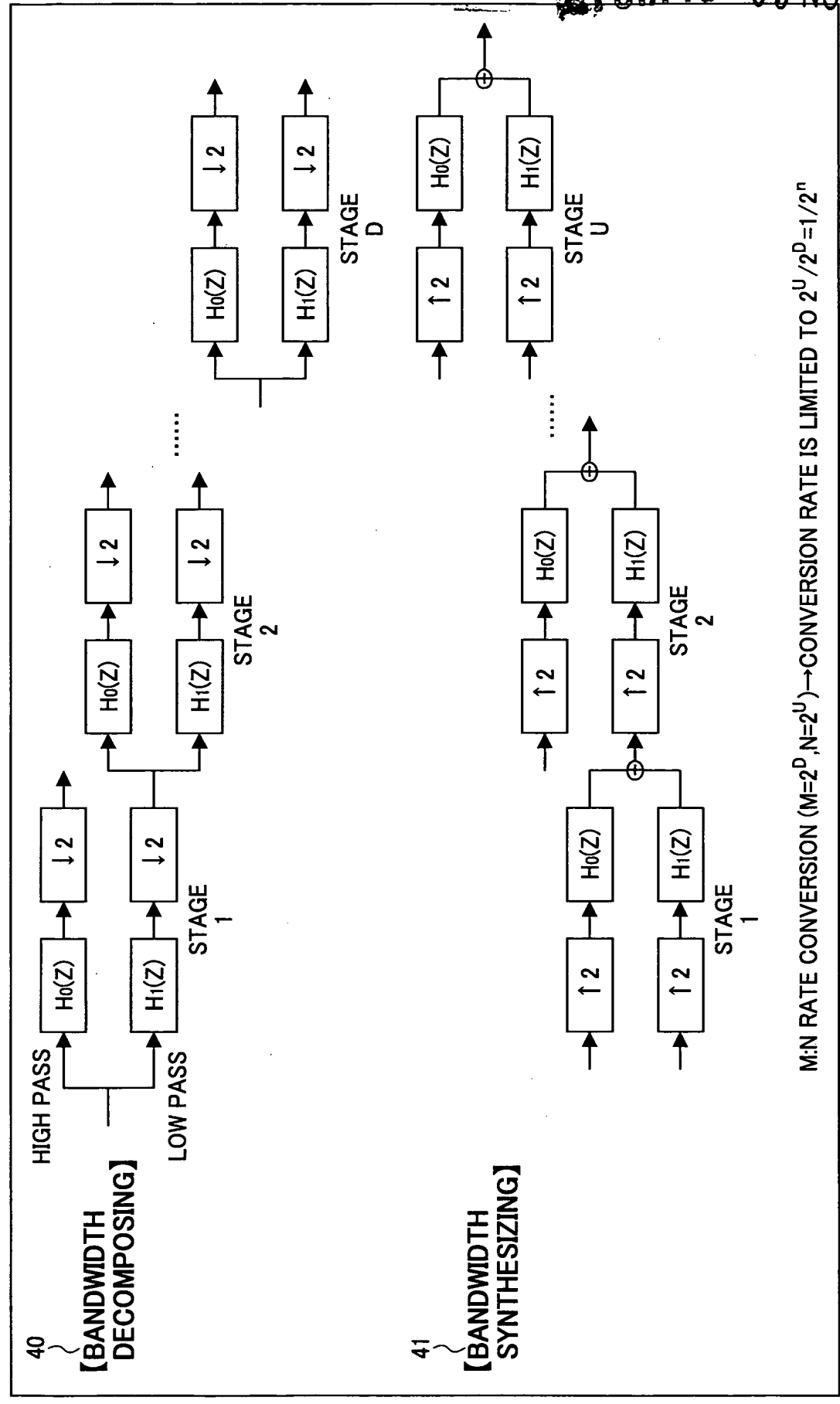
FIG.7



10/512075

10/512075
 PCT/PTO 05 NOV 2004

FIG.8



M:N RATE CONVERSION ($M=2^D, N=2^U$) \rightarrow CONVERSION RATE IS LIMITED TO $2^U/2^D=1/2^n$

10/512075
PCT/PTO 05 NOV 2004

FIG.9

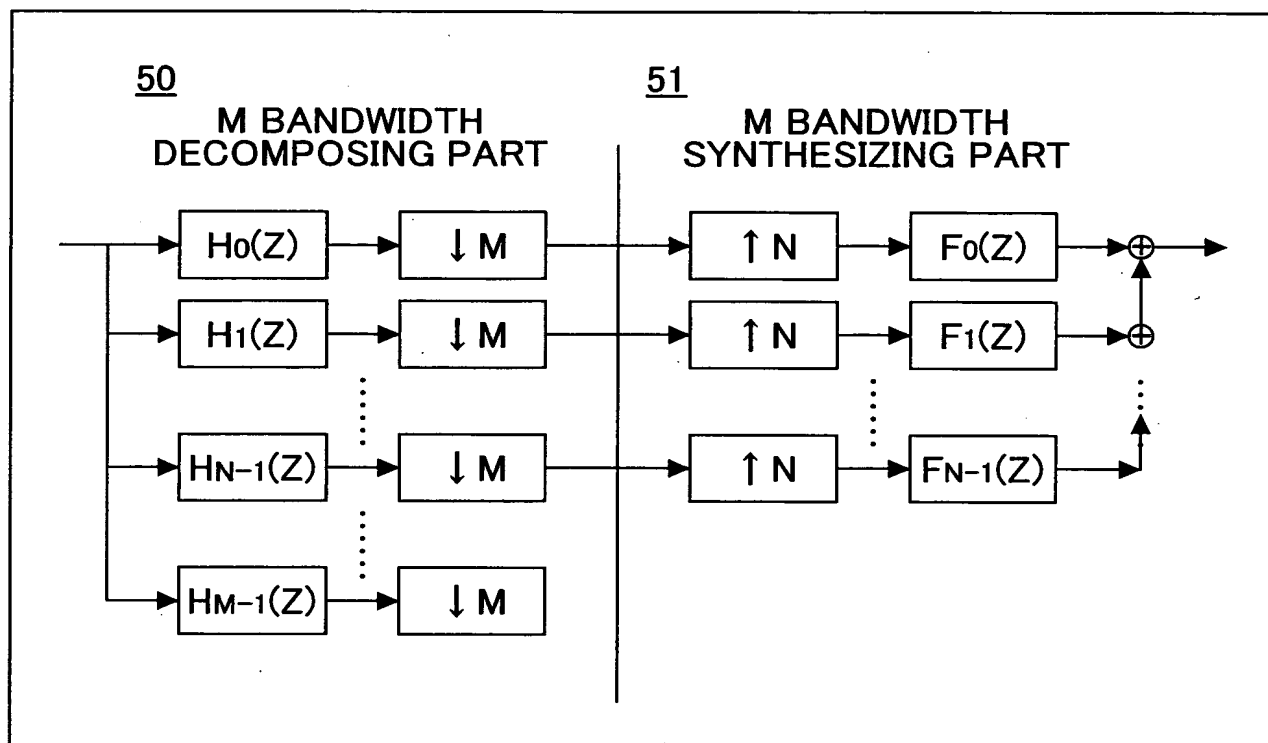
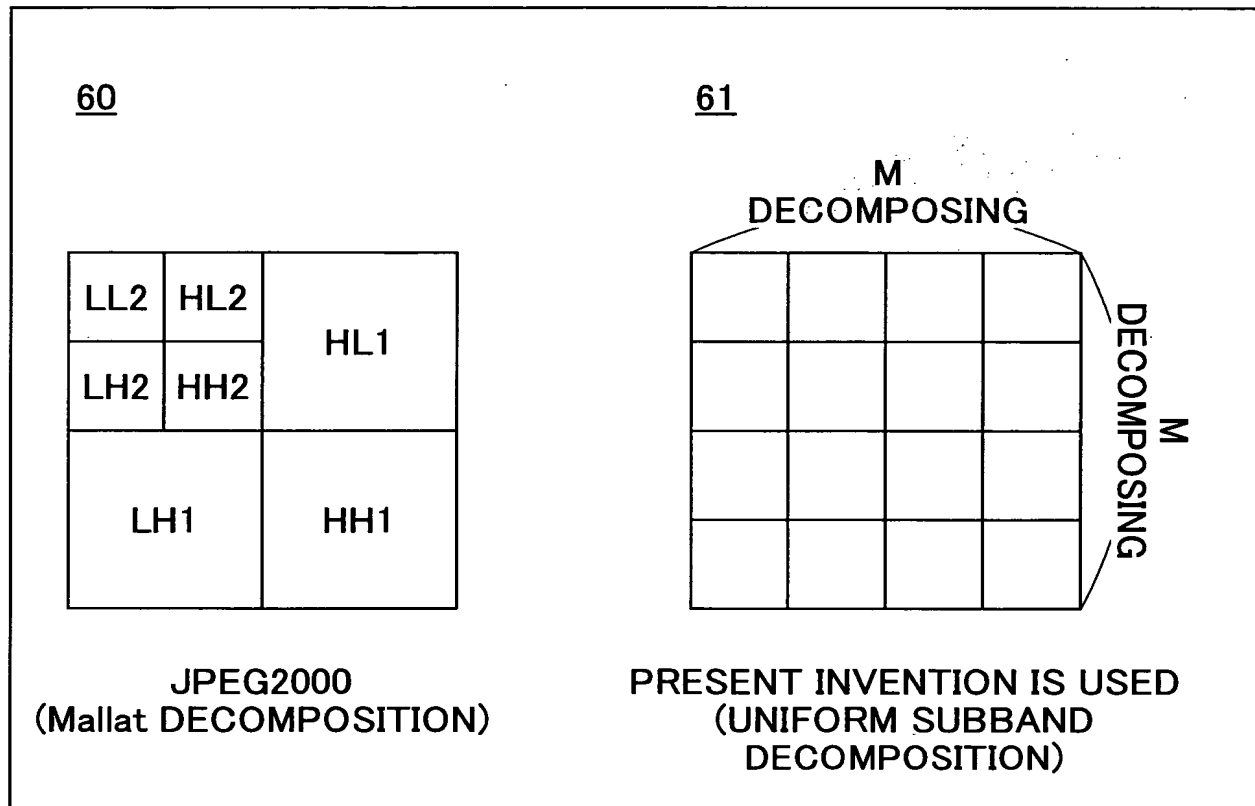


FIG.10



10/512075

PCT/PTO 05 NOV 2004

FIG.11

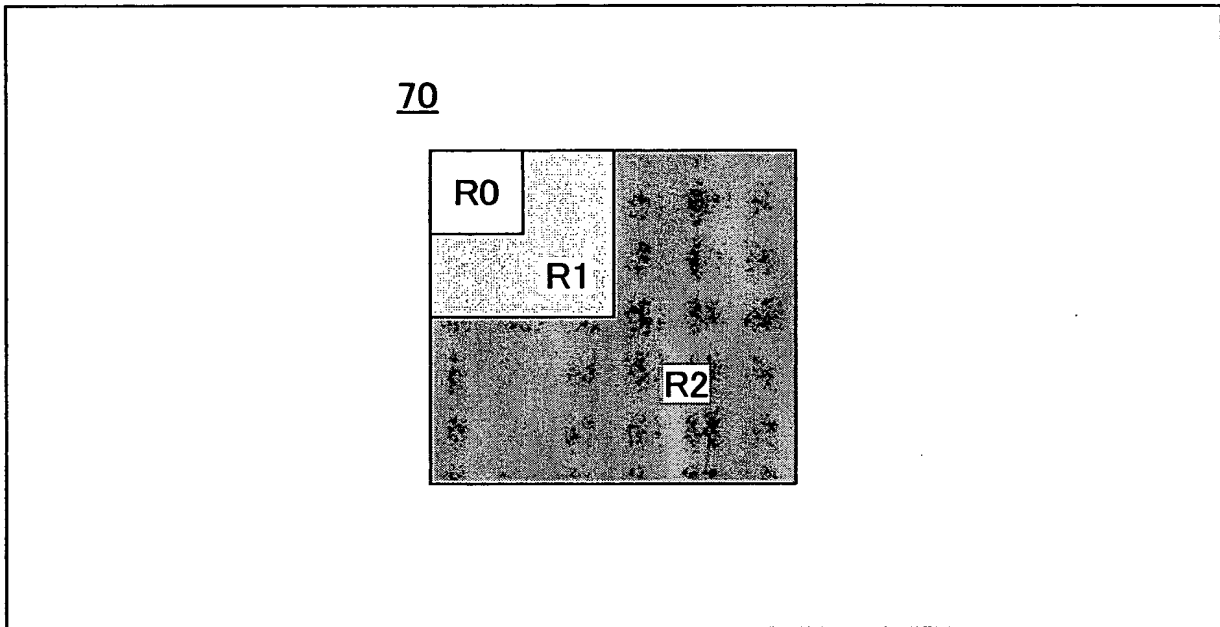
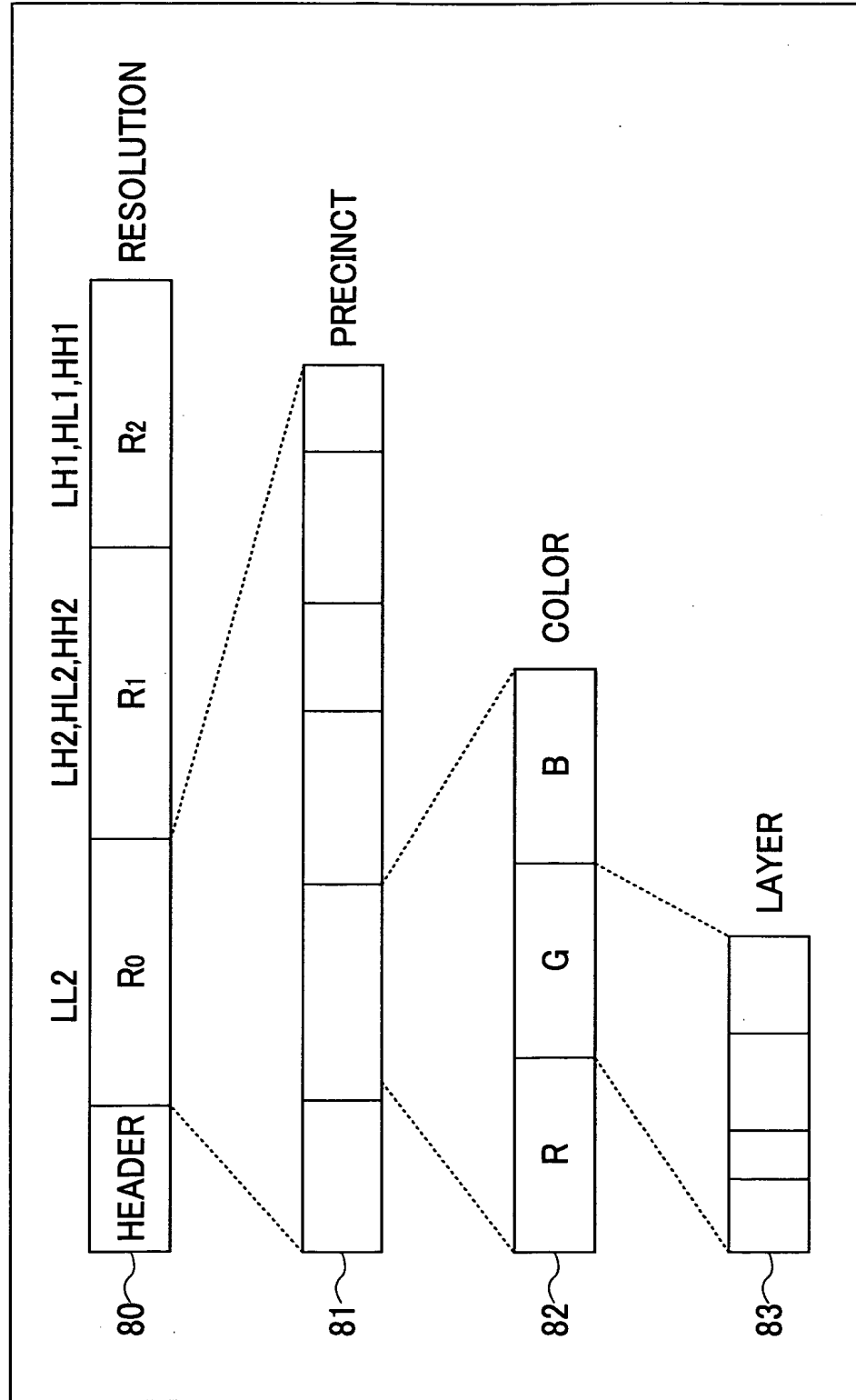


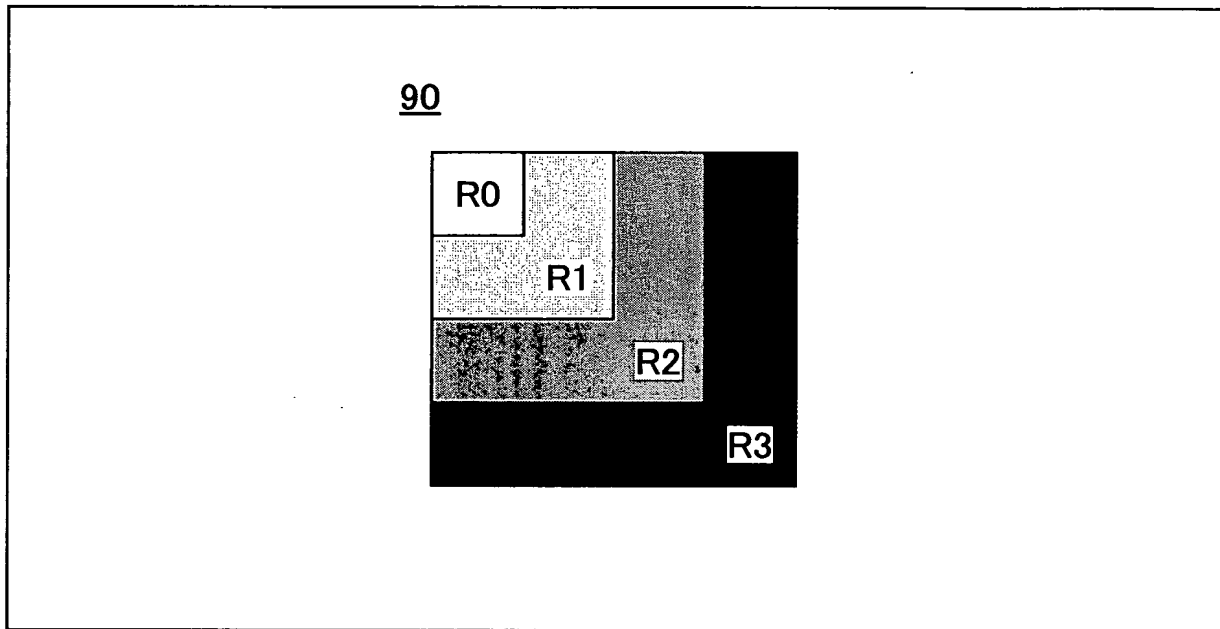
FIG.12



10/512075

PCT/PTO 05 NOV 2004

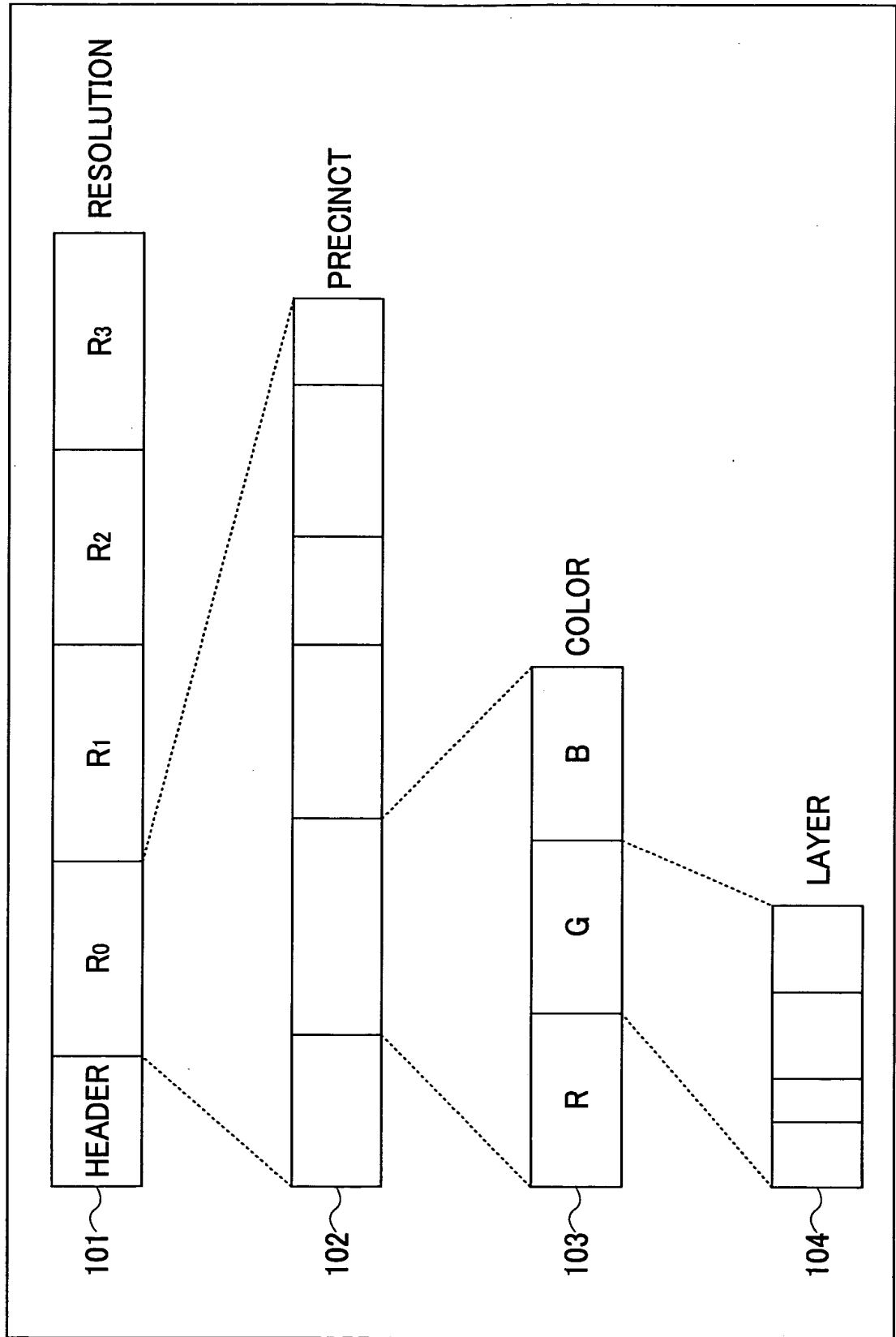
FIG.13



10/512075

PCT/PTO 05 NOV 2004

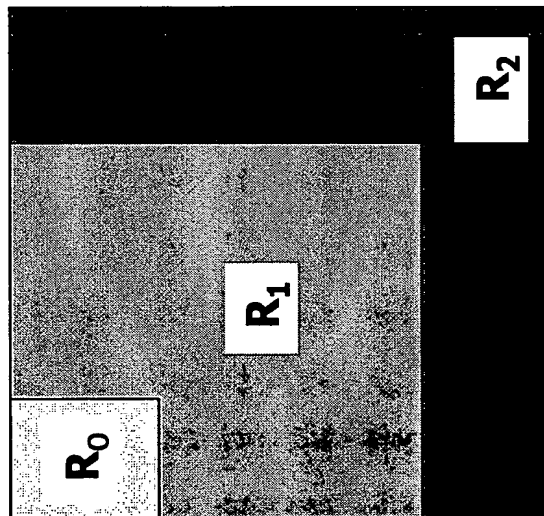
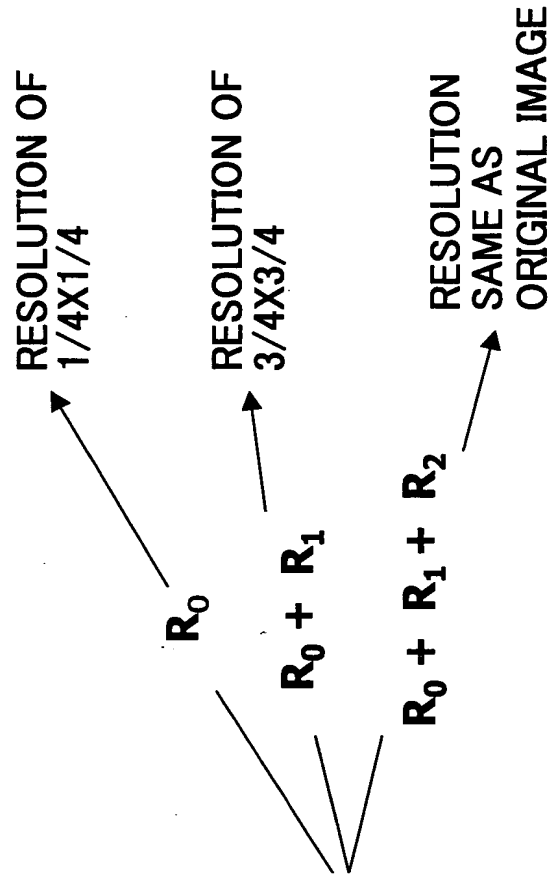
FIG.14



10/512075

PCT/PTO 05 NOV 2004

FIG.15



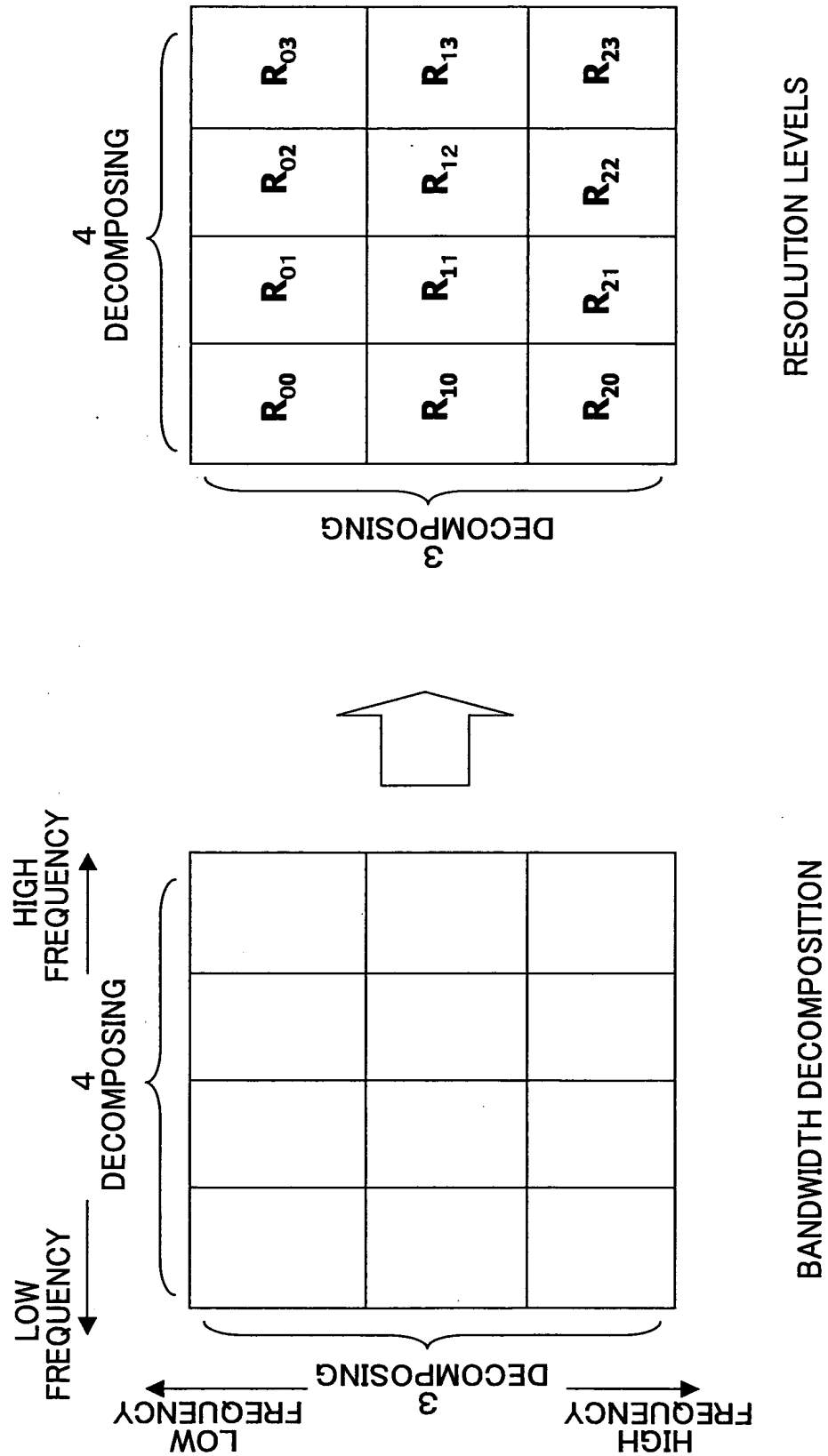
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10/512075

PCT/PTO

05 NOV 2004

FIG.16



10/512075

10/512075
05 NOV 2004

FIG.17

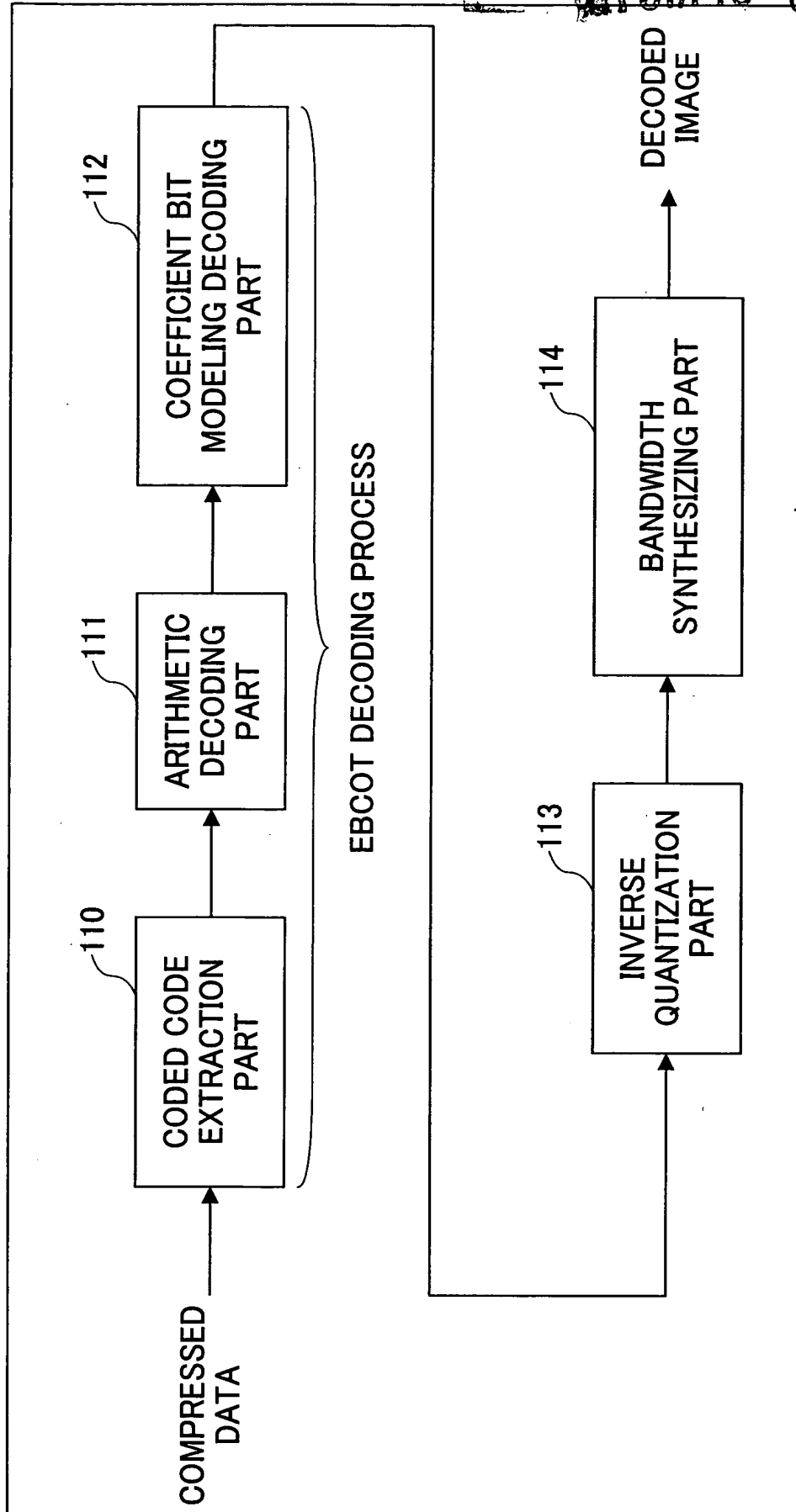
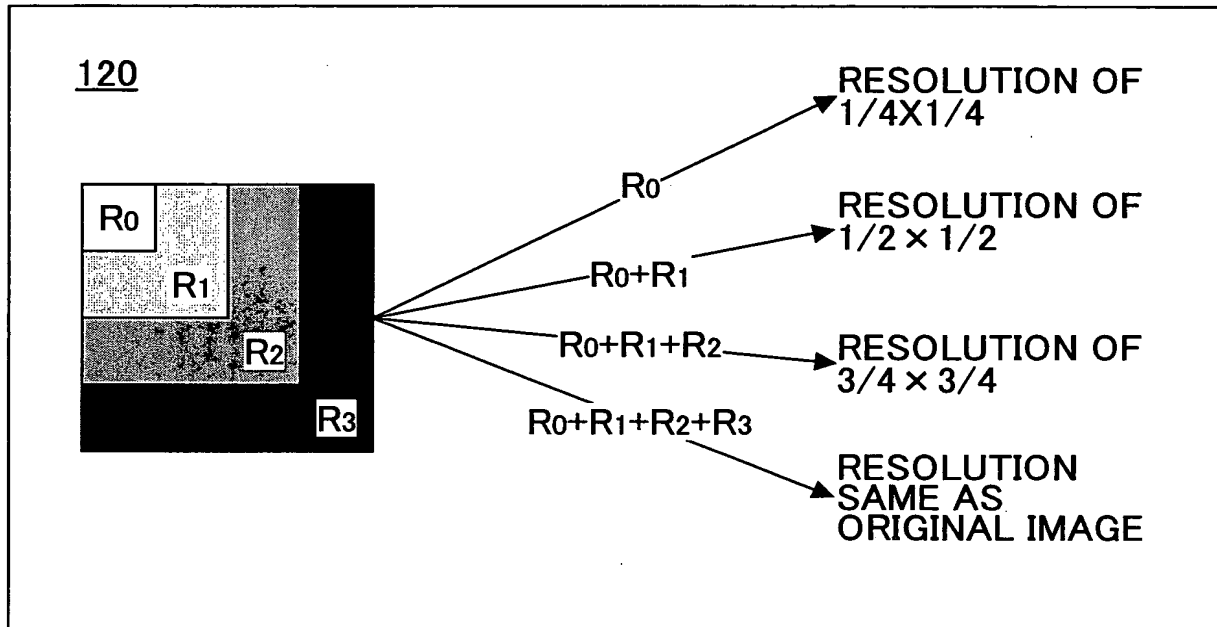


FIG.18

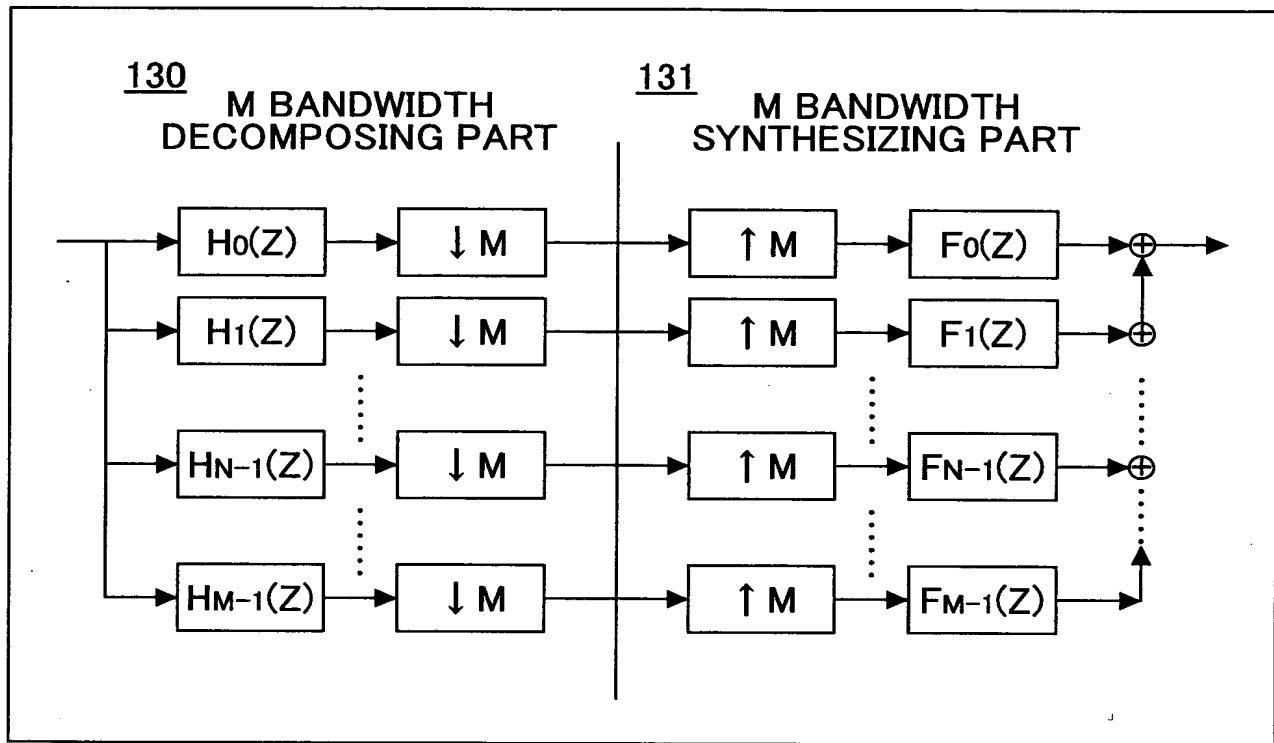


10/512075

PCT/PTO

05 NOV 2004

FIG.19



10/512075

PCT/PTO

05 NOV 2004

FIG.20

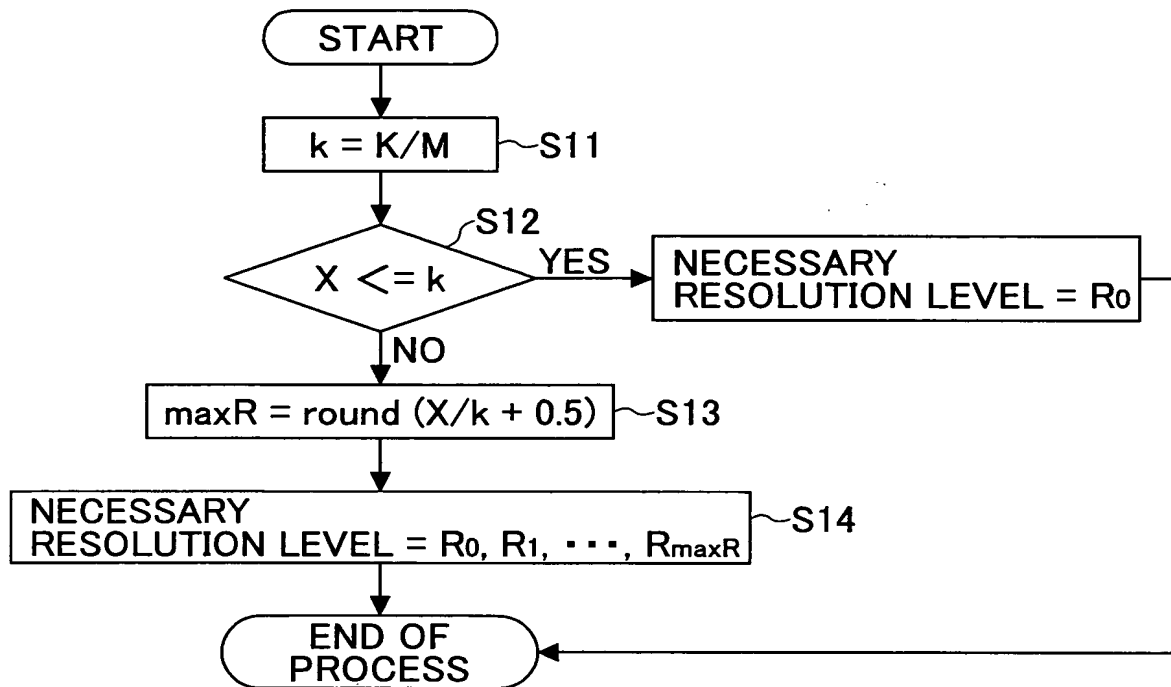
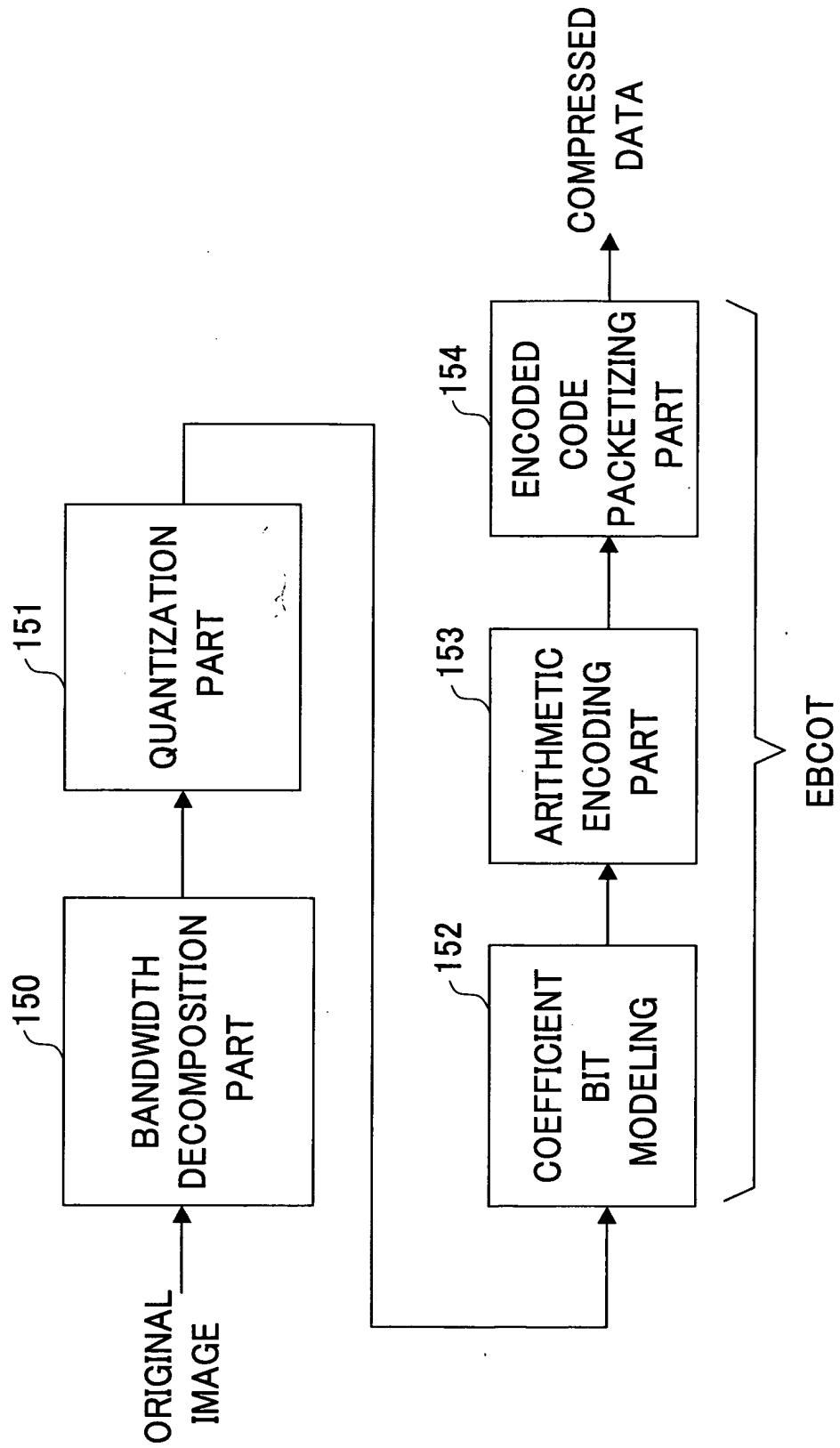


FIG.21

NECESSARY RESOLUTION LEVEL =

$$\begin{pmatrix} R_{00}, & R_{01}, & \dots & R_{0\text{maxRY}} \\ R_{10}, & R_{11}, & \dots & R_{1\text{maxRY}} \\ \dots & \dots & \dots & \dots \\ R_{\text{maxRX}0}, R_{\text{maxRX}1}, & \dots & \dots & R_{\text{maxRXmaxRY}} \end{pmatrix}$$

FIG.22



10/512075

PCT/PTO

05 NOV 2004

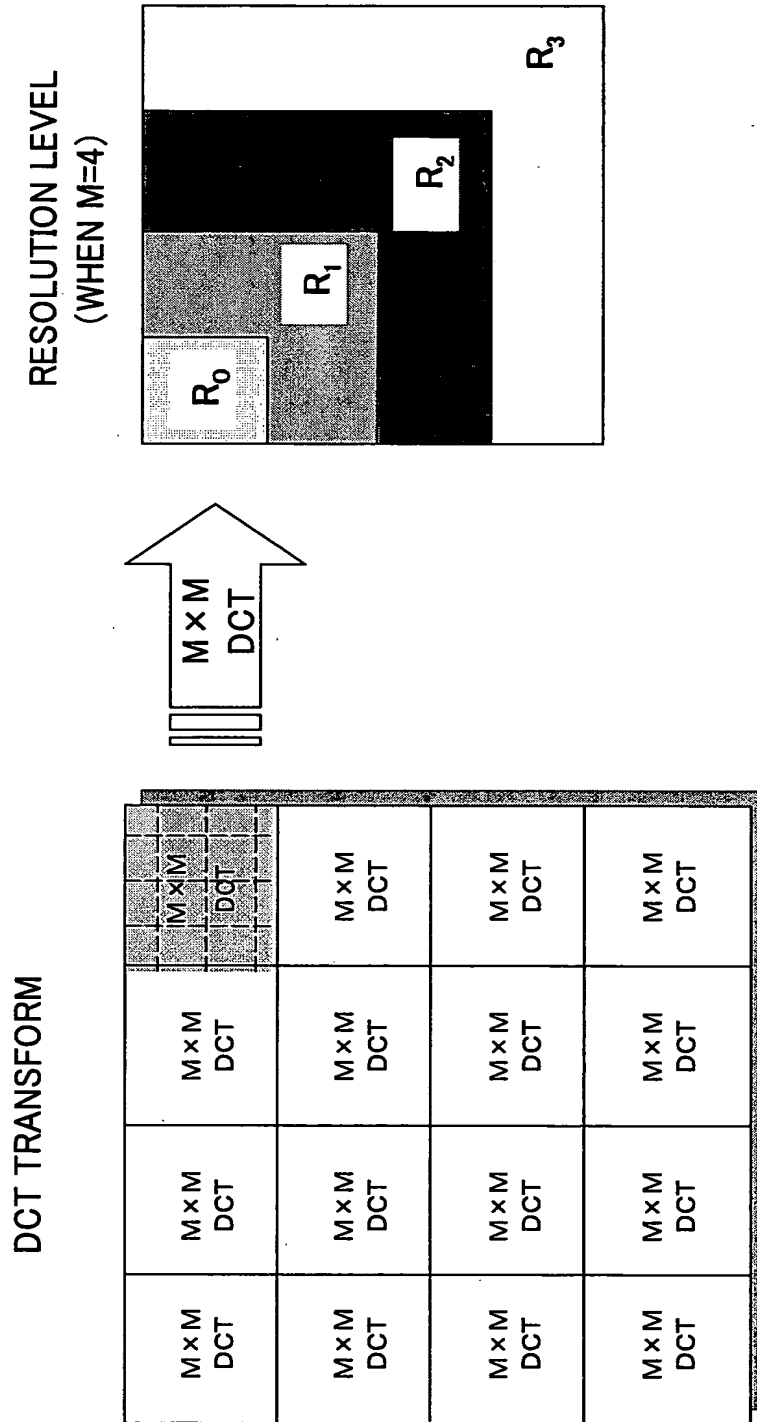
FIG.23

M × M DCT	M × M DCT	M × M DCT	M × M DCT
M × M DCT	M × M DCT	M × M DCT	M × M DCT
M × M DCT	M × M DCT	M × M DCT	M × M DCT
M × M DCT	M × M DCT	M × M DCT	M × M DCT

10/512075

PCT/PTO 05 NOV 2004

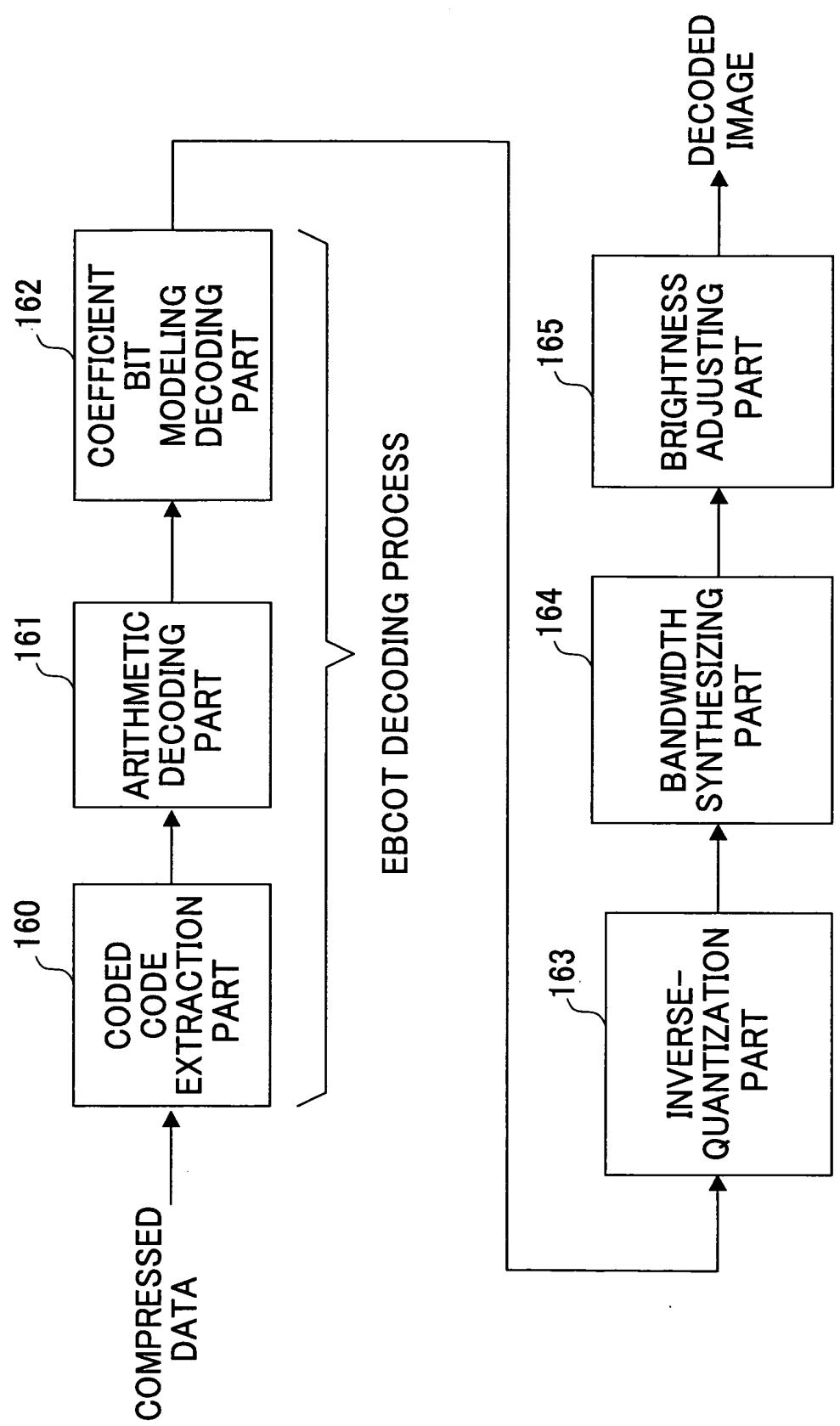
FIG.24



10/512075

PCT/PTO 05 NOV 2004

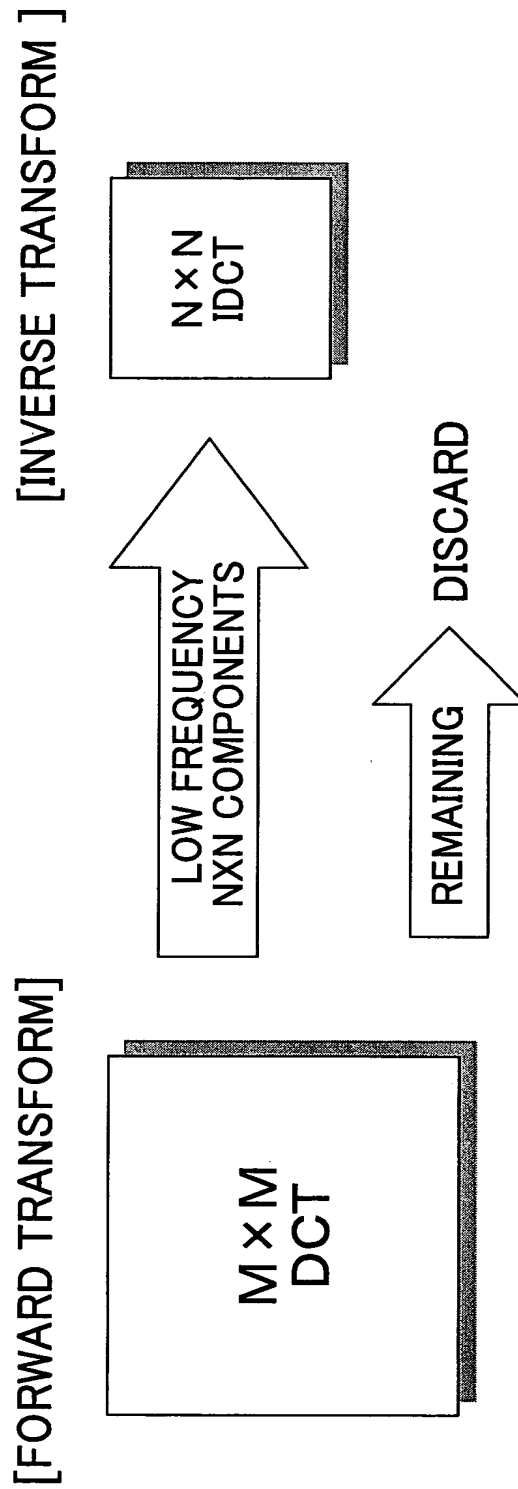
FIG.25



10/512075

PCT/PTO 05 NOV 2004

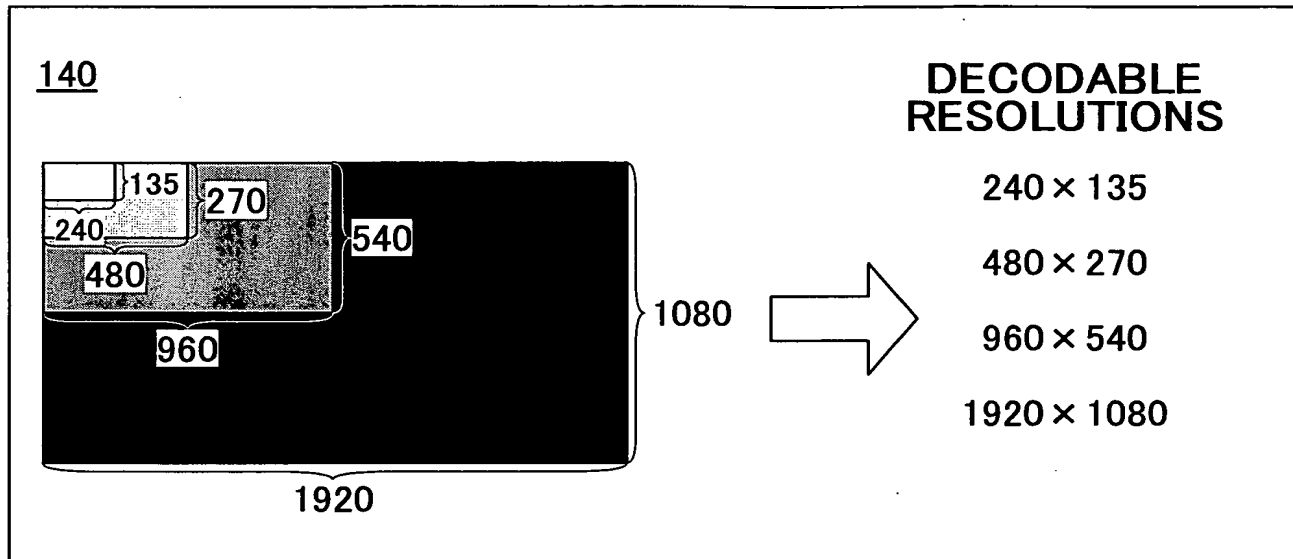
FIG.26



10/512075

PCT/PTO 05 NOV 2004

FIG.27

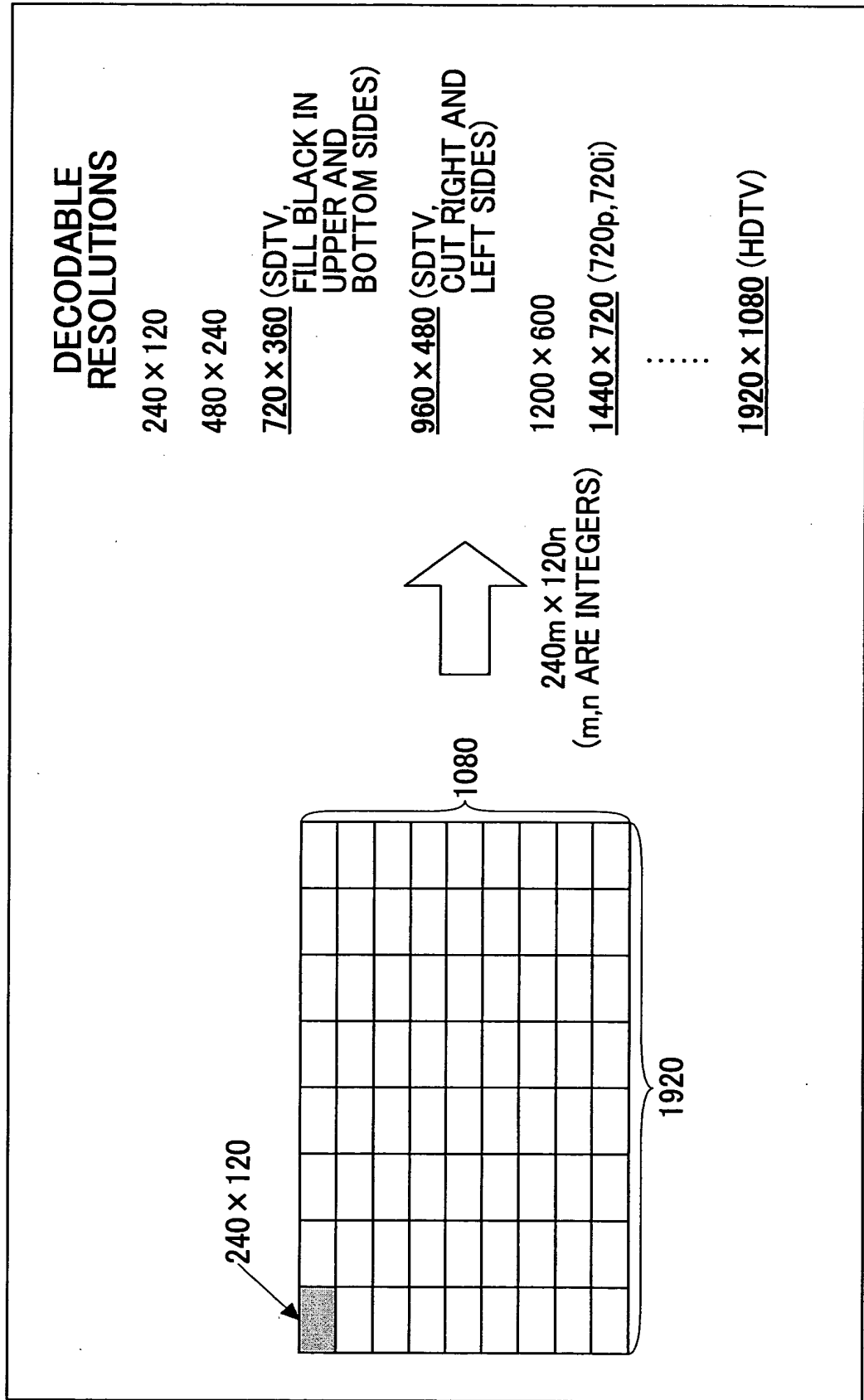


10/512075

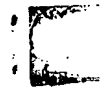
05 NOV 2004

PCT/PTO

FIG.28



10/512075



PCT/PTO

05 NOV 2004

FIG.29

ORIGINAL IMAGE	: SIDBA STANDARD IMAGE
NUMBER OF PIXELS	: 256*256 [pixels]
BIT WIDTH	: 8[bit/pixel]
NUMBER OF BYTES	: 65536 [bytes]



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10/512075

PCT/PTO 05 NOV 2004

FIG.30A



ORIGINAL IMAGE SIZE (256*256)

FIG.30B



3/4 SCALE
RESOLUTION IMAGE
(192*192)

FIG.30C



2/4 SCALE
RESOLUTION IMAGE
(128*128)

FIG.30D



1/4 SCALE
RESOLUTION IMAGE
(64*64)

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10/512075

PCT/PTO

05 NOV 2004

FIG.31

RESOLUTION	1 TIMES (256*256)	3/4 TIMES (192*192)	2/4 TIMES (128*128)	1/4 TIMES (64*64)
CODE SIZE [Bytes]	12705 (1.55bpp)	10800 (2.34bpp)	7706 (3.76bpp)	2525 (4.93bpp)
PSNR [dB]	39.96	39.24	37.20	33.75

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